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AIR POLLUTION REPORT

FEDERAL FACILITIES

METROPOLITAN STEUBENVILLE INTERSTATE

AIR QUALITY CONTROL REGION

ENVIRONMENTAL PROTECTION AGENCY

Air Pollution Control Office

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The status is presented of the federally owned facilities within the Metropolitan Steubenville Air Quality Control Region with regard to the implementation of the objectives prescribed by the Clean Air Act, as amended. Fuel usage, refuse disposal practices and air pollution emissions for the listed installations are reported.

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Exhaust Emissions
Fuels
Refuse Disposal
Urban Areas
National Government
Sulfur Oxides
Nitrogen Oxides
Carbon Monoxide

17b. Identifiers/Open-Ended Terms

17c. COSATI Field/Group 13 B

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AIR POLLUTION REPORT

FEDERAL FACILITIES

METROPOLITAN STEUBENVILLE INTERSTATE

AIR QUALITY CONTROL REGION

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FEDERAL FACILITIES BRANCH
DIVISION OF ABATEMENT
AIR POLLUTION CONTROL OFFICE
ROCKVILLE, MARYLAND

January 1971

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NARRATIVE

This report presents the current status of the federally owned facilities within the Metropolitan Steubenville Air Quality Control Region with regard to the implementation of the objectives prescribed by the Clean Air Act, as amended. The data in this report are the most recently available and reflect the current fuel usage, refuse disposal practices and air pollution emissions for the listed installations.

I. BOUNDARIES OF THE AIR QUALITY CONTROL REGION

On December 6, 1969, the Metropolitan Steubenville Interstate Air Quality Control Region was designated pursuant to section 107(a) of the Clean Air Act, as amended. The Region includes Belmont, Columbiana, Jefferson, and Monroe Counties in Ohio, and Brooke, Hancock, Marshall, and Ohio Counties in West Virginia.

II. NUMBER OF FEDERAL FACILITIES

There are 48 Federal installations within the Region and of these 23 are involved in burning either fossil fuels or refuse. Table I is a listing of these facilities and the quantities of fuel and refuse burned by each. Table II is a summary of the total annual fuel usage for the respective counties within the Region.

III. FEDERAL CONTRIBUTIONS TO AIR POLLUTION

The Federal facilities within the Metropolitan Steubenville Air Quality Control Region emit annually a total of 11 tons of sulfur oxides (SO_x), 4 tons of nitrogen oxides (NO_x), and 1 ton of carbon monoxide (CO).

Emissions from transportation sources were not included in this report, but will be covered in a subsequent report on air pollution emissions from mobile sources.

Table IV lists the Federal sources which emit annually more than 100 tons per year (Point Sources) of any one pollutant. There are no such sources in this region.

IV. REMEDIAL ABATEMENT MEASURES PROPOSED

No Federal facilities reported air pollution problems or remedial measures in their 1967 - 1972 five year abatement plans.

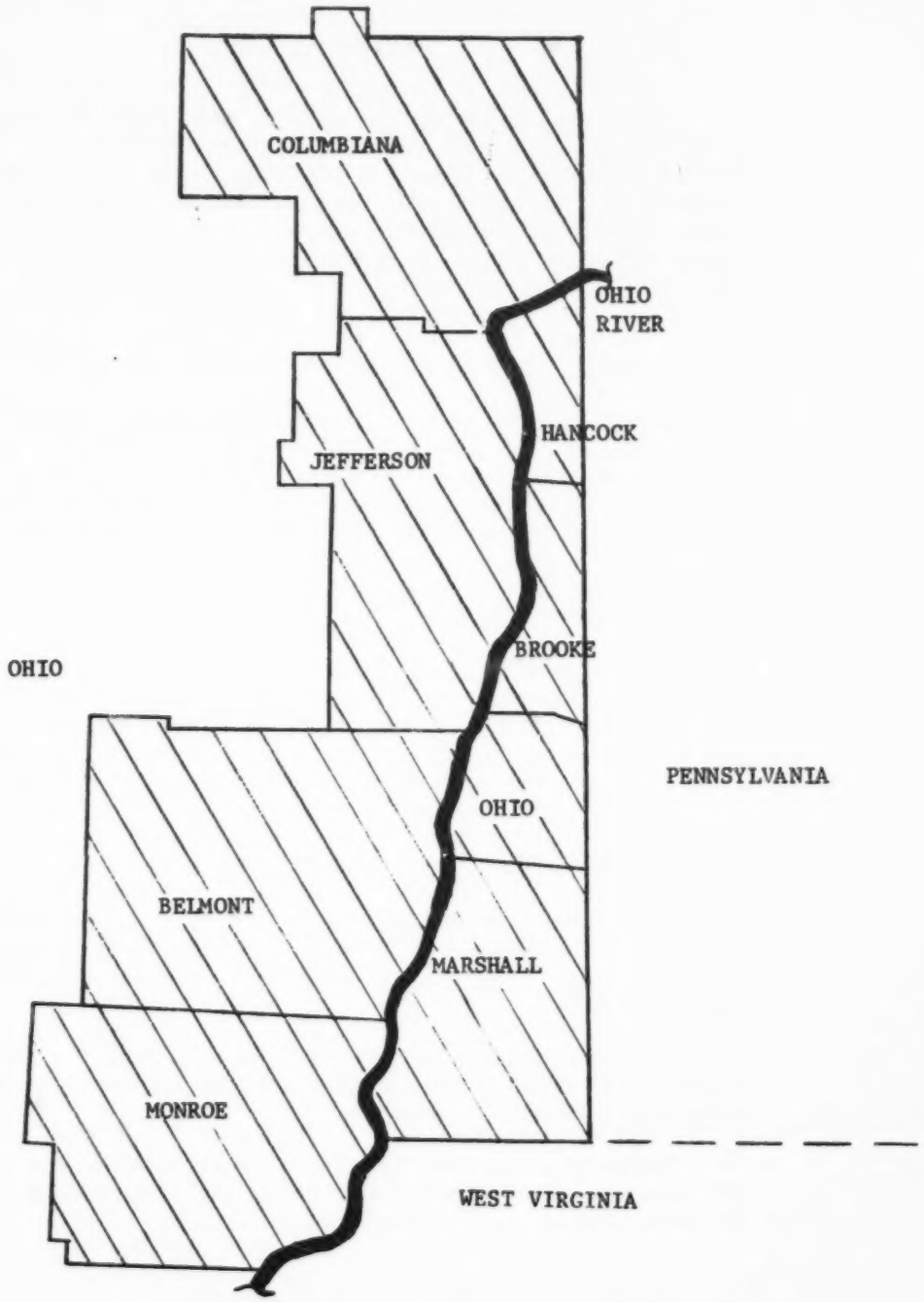

FIGURE I

METROPOLITAN STEUBENVILLE INTERSTATE
AIR QUALITY CONTROL REGION

TABLE I

FUEL USAGE AND REFUSE DISPOSAL FOR FEDERAL FACILITIES

LOCATIONS	REFUSE (LBS/DAY)		FUELS (PER YEAR)				COMMENTS
	OPEN BURNING	INCIN-ERATION	GAS (MCF)	DIST OIL (GALS)	RESID OIL (GALS)	COAL (TONS)	
OHIO							
BELMONT							
BELLAIRE							
POST OFFICE GUERNSEY&32	0	0	0	0	0	0	NOT IN OPERATION
USARC BELLAIRE	0	0	4624	0	0	0	REFUSE COLLECTED
FAA VTAC 13523	0	0	0	0	0	0	RANGE-DIRECT AID
OHIO RIVER LK D 13	0	0	0	0	0	0	CONCRETE ABUTMENT
OHIO							
BELMONT							
BARNESVILLE							
POST OFFICE 116 E CHURCH	0	0	0	0	0	35	REFUSE REMOVED
OHIO							
BELMONT							
BELMONT							
FAA RCAG 13377	0	0	0	0	0	0	VHF RADIO EQUIP

TABLE I

FUEL USAGE AND REFUSE DISPOSAL FOR FEDERAL FACILITIES

LOCATIONS	REFUSE (LBS/DAY)		FUELS (PER YEAR)				COMMENTS
	OPEN BURNING	INCIN-ERATION	GAS (MCF)	DIST OIL (GALS)	RESID OIL (GALS)	COAL (TONS)	
OHIO BELMONT BRIDGEPORT							
PO LINCOLN & HOWARD STS	0	0	770	0	0	0	REFUSE REMOVED
OHIO BELMONT MARTINS FERR							
POST OFFICE 101 N 5TH ST	0	0	979	0	0	0	REFUSE REMOVED
PIKE ISLAND LOCKS & DAM	0	0	0	0	0	0	CONCRETE ARUTMENT
OHIO JEFFERSON STEUBENVILLE							
POST OFFICE 4TH&WASH-ST	0	0	3888	0	0	0	REFUSED REMOVED
NAVAL RES. TRNG CENTER	0	0	0	0	0	0	PHASED OUT 1969

TABLE I

FUEL USAGE AND REFUSE DISPOSAL FOR FEDERAL FACILITIES

LOCATIONS	REFUSE (LBS/DAY)		FUELS (PER YEAR)				COMMENTS
	OPEN BURNING	INCIN-ERATION	GAS (MCF)	DIST OIL (GALS)	RESID OIL (GALS)	COAL (TONS)	
OHIO JEFFERSON STRATTEN NEW CUMBERLD LOCK & DAM	0	0	51	0	0	0	REFUSE REMOVED
OHIO MONROE LEWISVILLE AF LEWISVILL GAP	0	0	0	0	0	0	DEACTIVATED
OHIO MONROE CLARINGTON OHIO RIVER LOCK &DAM 14	0	0	0	0	0	0	CONCRETE ABUTMENT
OHIO MONROE SARDIS OHIO RIVER LOCK&DAM 15	0	0	16016	10000	0	0	REFUSE REMOVED

TABLE I

FUEL USAGE AND REFUSE DISPOSAL FOR FEDERAL FACILITIES

LOCATIONS	REFUSE (LBS/DAY)		FUELS (PER YEAR)				COMMENTS
	OPEN BURNING	INCIN-ERATION	GAS (MCF)	DIST OIL (GALS)	RESID OIL (GALS)	COAL (TONS)	
HANNIBAL LOCK&DAM	0	0	0	0	0	0	UNDER CONST.
OHIO							
MONROE							
WOODSFIELD							
POST OFFICE 125 N MAIN	0	0	759	0	0	0	REFUSE REMOVED
WILLOW IS. LOCK&DAM	0	0	1350	0	0	0	
OHIO							
COLUMBIANA							
E. LIVERPOOL							
POST OFFICE 5TH&BROADWAY	0	0	1585	0	0	0	REFUSE REMOVED
OHIO RIVER LK & DAM 8	0	0	0	0	0	0	DEACTIVATED
OHIO							
COLUMBIANA							
E. PALESTINE							
POST OFFICE 269 N MARKET	0	0	564	0	0	0	REFUSE REMOVED

TABLE I

FUEL USAGE AND REFUSE DISPOSAL FOR FEDERAL FACILITIES

LOCATIONS	REFUSE (LBS/DAY)		FUELS (PER YEAR)				COMMENTS
	OPEN BURNING	INCIN-ERATION	GAS (MCF)	DIST OIL (GALS)	RESID OIL (GALS)	COAL (TONS)	
OHIO COLUMBIANA LEETONIA							
POST OFFICE 235 MAIN ST	0	0	766	0	0	0	REFUSE REMOVED
OHIO COLUMBIANA SALINEVILLE							
FAA RMLR 12580	0	0	0	0	0	0	RADAR MICRO-WAVE LINK
WEST VIRGINI BROOKE WELLSBURG							
FAA VTAC 13524	0	0	0	0	0	0	RANGE DIRECT AID
POST OFFICE 10TH&CHARLES	0	0	7682	0	0	0	NO REFUSE
PIKE ISLAND LOCK&DAM	1	0	94	0	0	0	

TABLE I

FUEL USAGE AND REFUSE DISPOSAL FOR FEDERAL FACILITIES

LOCATIONS	REFUSE (LBS/DAY)		FUELS (PER YEAR)				COMMENTS
	OPEN BURNING	INCIN-ERATION	GAS (MCF)	DIST OIL (GALS)	RESID OIL (GALS)	COAL (TONS)	
EST VIRGINI HANCOCK NEW CUMBERLD							
NEW CUMBERLD LOCK&DAM	0	0	0	0	0	0	CONCRETE ABUTMENT
ST VIRGINI HANCOCK NEWELL							
OHIO RIVER LOCK&DAM 8	0	0	0	0	0	0	DEACTIVATED
EST VIRGINI HANCOCK WEIRTON							
POST OFFICE WEST&MILDREN	0	0	800	0	0	0	FUEL USE ESTIMATED
USARC WEIRTO	0	0	903	0	0	0	REFUSE REMOVED
WEST VIRGINI MARSHALL MCMECHEN							
OHIO RIVER LOCK&DAM 13	1	0	90	6000	0	0	

TABLE I

FUEL USAGE AND REFUSE DISPOSAL FOR FEDERAL FACILITIES

LOCATIONS	REFUSE (LBS/DAY)		FUELS (PER YEAR)				COMMENTS
	OPEN BURNING	INCIN-ERATION	GAS (MCF)	DIST OIL (GALS)	RESID OIL (GALS)	COAL (TONS)	
WEST VIRGINI MARSHALL MOUNDSVILLE							
FED OFF BLDG 7TH&LAFAYETT	0	0	77	0	0	0	REFUSE REMOVED
GASOLINE PILOT PLANT	0	0	0	0	0	0	NOT IN OPERATION
OHIO RIVER LOCK&DAM 14	1	0	0	15132	0	0	
WEST VIRGINI OHIO WARWOOD							
OHIO RIVER LOCK&DAM 12	1	0	89	14210	0	0	
WEST VIRGINI OHIO WHEELING							
NAVAL RTC WHEELING	0	0	0	29000	0	0	

TABLE I

FUEL USAGE AND REFUSE DISPOSAL FOR FEDERAL FACILITIES

LOCATIONS	REFUSE (LBS/DAY)		FUELS (PER YEAR)				COMMENTS
	OPEN BURNING	INCIN-ERATION	GAS (MCF)	DIST OIL (GALS)	RESID OIL (GALS)	COAL (TONS)	
USARC WHEELING	C	0	7486	0	0	0	REFUSE REMOVED
FED BLDG & CTHSE 12 ST	C	0	14	0	0	0	REFUSE REMOVED
SOCIAL SECURITY BLD	0	0	0	0	0	0	UNDER CONSTRUCTION
FAA RT 13378	0	0	0	0	0	0	TRANSMITTER RECEIVER
FAA GS 13384	0	0	0	0	0	0	VERTICAL NAV. AID
FAA LOC 13422	0	0	0	0	0	0	HORIZONTAL NAV AID
FAA OM 13525	0	0	0	0	0	0	OUTER MARKER

TABLE I

FUEL USAGE AND REFUSE DISPOSAL FOR FEDERAL FACILITIES

LOCATIONS	REFUSE (LBS/DAY)		FUELS (PER YEAR)				COMMENTS
	OPEN BURNING	INCIN-ERATION	GAS (MCF)	DIST OIL (GALS)	RESID OIL (GALS)	COAL (TONS)	
FAA MM 13526	0	0	0	0	0	0	MIDDLE MARKER
FAA ALSF 13532	0	0	0	0	0	0	APPROACH LIGHT SYSTEM
FAA VASI 13543	0	0	0	0	0	0	LANDING LIGHTS
FAA REIL 13544	0	0	0	0	0	0	LANDING LIGHT SYSTEM
FAA RVR 13564	0	0	0	0	0	0	RUNWAY VISUAL RANGE

TABLE II

ANNUAL FUEL USE BY FEDERAL FACILITIES

	COAL (TONS)	RESID OIL (GAL)	DIST OIL (GAL)	GAS (MCF)
OHIO				
BELMONT	35.	0.	0.	6373.
JEFFERSON	0.	0.	0.	3939.
MONROE	0.	0.	10000.	18125.
COLUMBIANA	0.	0.	0.	2915.
WEST VIRGINI				
BROOKE	0.	0.	0.	7776.
HANCOCK	0.	0.	0.	1703.
MARSHALL	0.	0.	21132.	167.
OHIO	0.	0.	43210.	7589.
TOTAL	35.	0.	74342.	48587.

TABLE III

FEDERAL CONTRIBUTION TO AIR POLLUTION
(TONS/YEAR)

	SUX	NOX	CO	PART	HC
OHIO					
BELMONT	1.	1.	1.	0.	0.
JEFFERSON	0.	0.	0.	0.	0.
MONROE	1.	1.	0.	0.	0.
COLUMBIANA	0.	0.	0.	0.	0.
STATE TOTAL	2.	2.	1.	0.	0.
WEST VIRGINI					
BROOKE	0.	1.	0.	0.	0.
HANCOCK	0.	0.	0.	0.	0.
MARSHALL	5.	0.	0.	0.	0.
OHIO	4.	1.	0.	0.	0.
STATE TOTAL	9.	2.	0.	0.	0.
AREA TOTAL	11.	4.	1.	0.	0.

NOTE: (1) EMISSIONS REPORTED IN SIGNIFICANT FIGURES
(2) EMISSIONS LESS THAN 0.5 TONS/YR REPORTED AS ZERO

TABLE IV

FEDERAL POINT SOURCES
(TONS/YEAR)

SOX	NOX	CO	PART	HC

NO FEDERAL POINT

SOURCES

IN THIS REGION

TABLE V

COAL-FIRED BOILERS IN VIOLATION OF 42 CFR 76.4

INSTALLATION NAME	BOILER SIZE (MMBTU/HR)	NUMBER OF BOILERS	COAL USED (TONS/YEAR)	PART. (LBS/MMBTU) EMITTED	PART. (LBS/MMBTU) ALLOWED	PART. EMITTED TONS/YR/BOILER
POST OFFICE 116 E CHURCH	0.5	1	35	0.72	0.60	0.3

TABLE VI

ABATEMENT PROGRAM FOR FEDERAL PROBLEM AREAS

IN THE

METROPOLITAN STEUBENVILLE INTERSTATE

AIR QUALITY CONTROL REGION

A. Statement of problem

B. Abatement measures proposed in five year plan*

C. Abatement measures accomplished or in progress

NO ABATEMENT PLANS

REPORTED FOR THE

STEUBENVILLE AIR QUALITY CONTROL REGION

*1967 - 72 plan per Executive Order 11282
superseded by Executive Order 11507

REFERENCES AND NOTES

1. Duprey, R.L., Compilation of Air Pollutant Emission Factors, Public Health Service Publication No. 999-AP-42, 1968.

All calculated emissions are based on these factors.

2. Report for Consultation on the Metropolitan Steubenville Interstate Air Quality Control Region, Public Health Service, August, 1969.

3. Clean Air Act, as amended (42 U.S.C. 1857-1857L) Sec 107, Sec 111. November 21, 1967.

4. Executive Order 11507, Prevention, Control, and abatement of Air and Water Pollution at Federal Facilities, February 4, 1970.

5. Title 42 - Public Health, Chapter I, Subchapter F, Part 76, June 2, 1966.

6. Bureau of the Budget Circular A-76 (Revised), May 18, 1970.

7. 1970 GSA Listing of Real Property owned by the Federal Government.